

Abstract of the Disclosure

An optical distribution network system includes an OLT; a plurality of ONUs; a first optical network and a second optical network, one of which connects the OLT with the plurality of ONUs; and a bandwidth controller. The bandwidth controller apportions the plurality of ONUs between the first optical network and the second optical network, assigns a predetermined transmission bandwidth to each of the plurality of ONUs, and accepts a bandwidth change of the transmission bandwidth. It solves a problem of a conventional optical distribution network system in that the maximum bandwidth available by DBA (dynamic bandwidth assignment) is equal to the total transmission bandwidth of working side minus the sum total of the minimum cell rates of the ONUs, and hence it cannot secure a large usable bandwidth for DBA, when congestion of bandwidth increase takes place among the plurality of ONUs.

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